

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for determining sleep stages of an examinee,
the method comprising: wherein
detecting signals of the examinee with a biosignal detector;
calculating a signal strength variance deviation value which that indicates
variation deviation of a signal strength of the detected signals; and detected by a biosignal
detection means is calculated and
determining a the sleep stage is determined by using this the signal strength
variance deviation value or a value of a plurality of values based on derived from this the
signal strength variance deviation value as an indicator value.
2. (Currently Amended) The method for determining sleep stages of an
examinee according to claim 1, wherein the indicator value is a the signal strength variance
data deviation value of signal strength data detected in a predetermined time period.
3. (Currently Amended) The method for determining sleep stages of an
examinee according to claim 1, wherein the indicator value is a signal of a difference between
the the signal strength variance data deviation value of signal strength data detected in the a
predetermined time period and a moving average of this the variance deviation value.
4. (Currently Amended) The method for determining sleep stages of an
examinee according to claim 1, wherein the indicator value is a signal of a moving average
calculated from in a predetermined time period of a the signal strength variance data deviation
value, said variance value having been calculated from the signal strength data detected
detected in the a predetermined time period.

5. (Currently Amended) The method for determining sleep stages of an examinee according to claim 1, wherein a signal strength variance deviation signal value obtained by removing abnormal values from the signal strength variance deviation value or a value of a plurality of values based on derived from this the signal strength variance deviation value is used as the indicator value.

6. (Currently Amended) The method for determining sleep stages of an examinee according to claim 1, wherein the signal strength is the signal strength obtained as a reciprocal of a coefficient obtained by gain-controlling the detected signals detected by the biosignal detection means.

7. (Currently Amended) The method for determining sleep stages of an examinee according to claim 1, wherein the biosignal detection means detector is a non-invasive detection means biosignal detector.

8. (Currently Amended) The method for determining sleep stages of an examinee according to claim 7, wherein the biosignal detection means detector comprises:
_____ a pressure detection tube;
_____ a pressure detection sensor; and
_____ a biosignal extraction means extractor, and wherein the biosignal extractor extracts biosignals are extracted from a pressure variation detected by the pressure detection sensor.

9. (Currently Amended) The method for determining sleep stages of an examinee according to claim 1, wherein the biosignal detection means detector is a heartbeat signal detection means detector, such as at least one of an electrocardiograph and a pulse rate meter.